RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/597,173B_
Source: _PCT - efs_
Date Processed by STIC: _9-11-06_

ENTERED

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       RAW SEQUENCE LISTING                    DATE: 09/11/2006
       PATENT APPLICATION:  US/10/597,173B     TIME: 12:50:13

       Input Set : N:\efs\10597173B_efs\SEQ_LISTING_10597173_4.txt
       Output Set: N:\CRF4\09112006\J597173B.raw

 3 <110> APPLICANT: GENEIN CO., LTD.
 4       KIM, Cheol-Min
 5       PARK, Hee-Kyung
 7 <120> TITLE OF INVENTION: Oligonucleotide for genotyping of Mycoplasma, microarray
 8       comprising the oligonucleotide, and method for detection of
 9       species using the microarray
11 <130> FILE REFERENCE: P10031US
13 <140> CURRENT APPLICATION NUMBER: US 10/597,173B
14 <141> CURRENT FILING DATE: 2006-07-13
16 <150> PRIOR APPLICATION NUMBER: PCT/KR05/00147
17 <151> PRIOR FILING DATE: 2005-01-14
19 <150> PRIOR APPLICATION NUMBER: KR 2004-0002715
20 <151> PRIOR FILING DATE: 2004-01-14
22 <160> NUMBER OF SEQ ID NOS: 133
24 <170> SOFTWARE: PatentIn version 3.3
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 344
28 <212> TYPE: DNA
29 <213> ORGANISM: M.bovis
31 <400> SEQUENCE: 1
32 ttctacggag tacacttgtc ttttatcact ataaaaaaaa gacttataac caaaattact      60
34 agacctatat ttatttataa acgtcatggc ttttattaat aggtcaaaag ctatatatct     120
36 agttttgaga gaacattctc tcatatgttc tttgaaaact gaatagtaaa atattttcg      180
38 atatttacaa cgacatcaaa aatcaaatta atggttaatt tgttttgatt catcgagtaa     240
40 gtcatattta atatgattca ttgaaatgtc ttaaaataca catctaaaac taacaacaat     300
42 aggaaaatac tacttttaaa taaggaagag tttttggtgg atgc                      344
45 <210> SEQ ID NO: 2
46 <211> LENGTH: 196
47 <212> TYPE: DNA
48 <213> ORGANISM: M.cloacale
50 <400> SEQUENCE: 2
51 cttctacgga gtacaattct cactgttatg gaattaaatt tgtatccagt tttgagagaa      60
53 ctttctctca attttgttct ttgaaaactg aatatagaca ttgaaatcaa taaattaata     120
55 tttcaaatgt ttagatcaac ctatagaata ttcaagacat atacaaaaat aggtcatact     180
57 tatatttata aatact                                                     196
60 <210> SEQ ID NO: 3
61 <211> LENGTH: 196
62 <212> TYPE: DNA
63 <213> ORGANISM: M.falconis
65 <400> SEQUENCE: 3
66 ctttctacgg agtacaactt ctgttatgga ataatatttg tatccagttt tgagagtact      60
68 aactctcttt ttgttctttg aaaactgaat atcgacattg aaaaattatt aattaatatt     120
70 tcaaagttta gatcaaccta tagaatacaa aaatatagac aacaataggt catacaacaa     180
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72 acataacaaa acaact                                                      196
75 <210> SEQ ID NO: 4
76 <211> LENGTH: 239
77 <212> TYPE: DNA
78 <213> ORGANISM: M.faucium
80 <400> SEQUENCE: 4
81 gaatggtggc ttcgagacta aaagttatgg aaaaacatcg tatccagttt tgagagaact      60
83 aaacttctct cttttgttct ttgaaaactg aatatagaca ttgaaaatta aaaaattaat     120
85 atttcaaagt ttagatcaac ctatagaata caaaatcaat acaataggtc aatactatac     180
87 aattgcataa caaaaaatac tattaaacaa gataagagtt tttggtggat gcaattgta      239
90 <210> SEQ ID NO: 5
91 <211> LENGTH: 340
92 <212> TYPE: DNA
93 <213> ORGANISM: M.spermatophilum
95 <400> SEQUENCE: 5
96 gtggggatgg atcacctcct ttctacggag tacaaacata cattcaaatt ttgactgaat      60
98 gttattaacc ttattttttc actaggcctt tttaatatat tttgttatgt gacttttatg     120
100 gcctaaaagt cttatatcta gttttgagag gacatcctct ctaattgttc tttgaaaact     180
102 gaatagtaaa ttttttgata tttacaacga catctaaata attgaattaa gtcaatttgt     240
104 ttagatttca tcgagatagt cattttaaaa aaatgattca ttgaaatgtc ttaaaataca     300
106 catcaaaaca aacaatctat acaataggaa tttatatact                          340
109 <210> SEQ ID NO: 6
110 <211> LENGTH: 322
111 <212> TYPE: DNA
112 <213> ORGANISM: M.synoviae
114 <400> SEQUENCE: 6
115 tccttacgga gtacattaat tttacaaaag gcatttttat taactgaaag cttttagaga      60
117 aaaattctaa aagcggttgt gtatcgcttt ttttgccttg ggctattgta tttagttttg     120
119 agagaacaac ctctcttaaa attgttcttt gaaaactaaa tagtaataaa gatattacaa     180
121 cgacatcaaa aatataaatt aattaaggtt aatttgtttt gataccgagt ttaaattatt     240
123 gaataataat ttattaaaat gtctttgaat acatcataac aatataacaa taggacatat     300
125 tgatactaac ttttaaaaaa gt                                             322
128 <210> SEQ ID NO: 7
129 <211> LENGTH: 15
130 <212> TYPE: DNA
131 <213> ORGANISM: Artificial Sequence
133 <220> FEATURE:
134 <223> OTHER INFORMATION: Probe for detecting Mycoplasma
137 <400> SEQUENCE: 7
138 ttctttgaaa actga                                                      15
141 <210> SEQ ID NO: 8
142 <211> LENGTH: 20
143 <212> TYPE: DNA
144 <213> ORGANISM: Artificial Sequence
146 <220> FEATURE:
147 <223> OTHER INFORMATION: Probe for detecting Mycoplasma
149 <220> FEATURE:
150 <221> NAME/KEY: misc_feature
151 <222> LOCATION: (20)..(20)
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     160 <211> LENGTH: 21
     161 <212> TYPE: DNA
     162 <213> ORGANISM: Artificial Sequence
     164 <220> FEATURE:
     165 <223> OTHER INFORMATION: Probe for detecting M. arginini, etc.
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     169 mwtygtrtcc agttttgaga g                                            21
     172 <210> SEQ ID NO: 10
     173 <211> LENGTH: 21
     174 <212> TYPE: DNA
     175 <213> ORGANISM: Artificial Sequence
     177 <220> FEATURE:
     178 <223> OTHER INFORMATION: Probe for detecting M. arginini, etc.
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     182 tttagatcaa cctatagaat a                                            21
     185 <210> SEQ ID NO: 11
     186 <211> LENGTH: 21
     187 <212> TYPE: DNA
     188 <213> ORGANISM: Artificial Sequence
     190 <220> FEATURE:
     191 <223> OTHER INFORMATION: Probe for detecting M. bovis, etc.
     194 <400> SEQUENCE: 11
     195 rtatytagtt ttgagagrrc a                                            21
     198 <210> SEQ ID NO: 12
     199 <211> LENGTH: 21
     200 <212> TYPE: DNA
     201 <213> ORGANISM: Artificial Sequence
     203 <220> FEATURE:
     204 <223> OTHER INFORMATION: Probe for detecting M. bovis, etc.
     207 <400> SEQUENCE: 12
     208 wwtrattyat traaatgtct t                                            21
     211 <210> SEQ ID NO: 13
     212 <211> LENGTH: 17
     213 <212> TYPE: DNA
     214 <213> ORGANISM: Artificial Sequence
     216 <220> FEATURE:
     217 <223> OTHER INFORMATION: Probe for detecting M. bovis, etc.
     220 <400> SEQUENCE: 13
     221 ggkyaatttg tttwgat                                                 17
     224 <210> SEQ ID NO: 14
     225 <211> LENGTH: 18
     226 <212> TYPE: DNA
     227 <213> ORGANISM: Artificial Sequence
     229 <220> FEATURE:
     230 <223> OTHER INFORMATION: Probe for detecting M. bovis, etc.
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233 <400> SEQUENCE: 14
234 ratatttaca mcgmcayc                                          18
237 <210> SEQ ID NO: 15
238 <211> LENGTH: 21
239 <212> TYPE: DNA
240 <213> ORGANISM: Artificial Sequence
242 <220> FEATURE:
243 <223> OTHER INFORMATION: Probe for detecting M. muris, etc.
246 <400> SEQUENCE: 15
247 cctcctttct atcggagtam a                                      21
250 <210> SEQ ID NO: 16
251 <211> LENGTH: 21
252 <212> TYPE: DNA
253 <213> ORGANISM: Artificial Sequence
255 <220> FEATURE:
256 <223> OTHER INFORMATION: Probe for detecting M. muris, etc.
259 <400> SEQUENCE: 16
260 cggattctat ttagttttga g                                      21
263 <210> SEQ ID NO: 17
264 <211> LENGTH: 21
265 <212> TYPE: DNA
266 <213> ORGANISM: Artificial Sequence
268 <220> FEATURE:
269 <223> OTHER INFORMATION: Probe for detecting M. neurolyticum, etc.
272 <400> SEQUENCE: 17
273 taaaatagat accttaakat a                                      21
276 <210> SEQ ID NO: 18
277 <211> LENGTH: 17
278 <212> TYPE: DNA
279 <213> ORGANISM: Artificial Sequence
281 <220> FEATURE:
282 <223> OTHER INFORMATION: Probe for detecting M. neurolyticum, etc.
285 <400> SEQUENCE: 18
286 gtatyyagtt ttgaaag                                           17
289 <210> SEQ ID NO: 19
290 <211> LENGTH: 16
291 <212> TYPE: DNA
292 <213> ORGANISM: Artificial Sequence
294 <220> FEATURE:
295 <223> OTHER INFORMATION: Probe for detecting M. neurolyticum, etc.
298 <400> SEQUENCE: 19
299 cttgccaawt agwtwt                                            16
302 <210> SEQ ID NO: 20
303 <211> LENGTH: 21
304 <212> TYPE: DNA
305 <213> ORGANISM: Artificial Sequence
307 <220> FEATURE:
308 <223> OTHER INFORMATION: Probe for detecting M. genitalium, etc.
311 <400> SEQUENCE: 20
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312 awacracaat ctttctagtt c                                              21
315 <210> SEQ ID NO: 21
316 <211> LENGTH: 21
317 <212> TYPE: DNA
318 <213> ORGANISM: Artificial Sequence
320 <220> FEATURE:
321 <223> OTHER INFORMATION: Probe for detecting M. genitalium, etc.
324 <400> SEQUENCE: 21
325 aataagttac taagggctta t                                              21
328 <210> SEQ ID NO: 22
329 <211> LENGTH: 18
330 <212> TYPE: DNA
331 <213> ORGANISM: Artificial Sequence
333 <220> FEATURE:
334 <223> OTHER INFORMATION: Probe for detecting Acholeplasma
337 <400> SEQUENCE: 22
338 tcatcatatt cagttttg                                                  18
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342 <211> LENGTH: 21
343 <212> TYPE: DNA
344 <213> ORGANISM: Artificial Sequence
346 <220> FEATURE:
347 <223> OTHER INFORMATION: Probe for detecting Acholeplasma
350 <400> SEQUENCE: 23
351 gggcctrtag ctcagytggt t                                              21
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355 <211> LENGTH: 21
356 <212> TYPE: DNA
357 <213> ORGANISM: Artificial Sequence
359 <220> FEATURE:
360 <223> OTHER INFORMATION: Probe for detecting Acholeplasma
363 <400> SEQUENCE: 24
364 agagcrcwcg cytgataagc g                                              21
367 <210> SEQ ID NO: 25
368 <211> LENGTH: 21
369 <212> TYPE: DNA
370 <213> ORGANISM: Artificial Sequence
372 <220> FEATURE:
373 <223> OTHER INFORMATION: Probe for detecting Acholeplasma
376 <400> SEQUENCE: 25
377 wgrggtcgat ggttcragtc c                                              21
380 <210> SEQ ID NO: 26
381 <211> LENGTH: 21
382 <212> TYPE: DNA
383 <213> ORGANISM: Artificial Sequence
385 <220> FEATURE:
386 <223> OTHER INFORMATION: Probe for detecting Acholeplasma
389 <400> SEQUENCE: 26
390 tcatcatatt cagttttgar r                                              21
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 09/11/2006
PATENT APPLICATION: US/10/597,173B   TIME: 12:50:14

Input Set : N:\efs\10597173B_efs\SEQ_LISTING_10597173_4.txt
Output Set: N:\CRF4\09112006\J597173B.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:8; N Pos. 20

VERIFICATION SUMMARY   DATE: 09/11/2006
PATENT APPLICATION: **US/10/597,173B**   TIME: 12:50:14

Input Set : **N:\efs\10597173B_efs\SEQ_LISTING_10597173_4.txt**
Output Set: **N:\CRF4\09112006\J597173B.raw**

L:156 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0